

LIQUID-LIQUID EXTRACTION GAS CHROMATOGRAPHIC METHOD II SM 20 <sup>th</sup> ED 6630 C					Page 1 of 2
Facility Name: _____					VELAP ID _____
Assessor Name: _____					Analyst Name: _____
					Inspection Date _____
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Were samples collected in amber bottles or protected from light?	6410B.2				
Were sample bottles and cap liners rinsed with methylene chloride or acetone prior to use?	6410B.2				
If samples were not extracted within 72 hours of collection, were sample pHs adjusted to between 5.0 and 9.0?	6630C.2				
If aldrin was to be determined, was sodium thiosulfate added to samples when residual chlorine was present?	6630C.2				
Were sample extracted within 7 days of collection, and were extracts analyzed within 40 days of extraction?	6410B.2				
Was ethyl ether demonstrated to be free from peroxides by the use of test strips?	6630C.4.a				
Was each batch of silica gel activated for at least 16 hours at 130°C?	6630C.4.c				
Prior to extraction, were sample levels marked on sample containers for later sample volume determinations?	6630C.5.a				
Once added to separatory funnels, were sample pHs adjusted to > 11?	6410.5.a.1)				
Were samples in separatory funnels shaken with methylene chloride for 2 mins followed by layers being allowed to separate for 10 mins?	6410.5.a.1)				
If emulsions formed, were emulsion-breaking techniques employed?	6410.5.a.1)				
Were the methylene chloride extraction steps repeated twice more?	6410.5.a.1)				
Notes/ Comments:					

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After third extraction, was aqueous phase pH adjusted to < 2 with sulfuric acid?	6410.5.a.1)				
Was the aqueous phase next extracted three times and labeled as the acid fraction?	6410.5.a.1)				
Were extracts next concentrated?	6410.5.a.1)				
Were extracts subjected to appropriate clean-up procedure?	6630C.5.b				
Were check standards assessed to a criterion of $\pm 15\%$ ?	6630C.5.d				

Notes/ Comments: